

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: PORTFOLIO

Report Number: P772642

Luminaire Tested: LD6D85BD010-EU6DR3070959030-6LBS1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P772642
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD6D85BD010-EU6DR3070959030-6LBS1B
Description: 6 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9916.6 lumens
Efficiency: N/A
Efficacy: 113.1 lumens/watt
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')
CIE Type: Direct

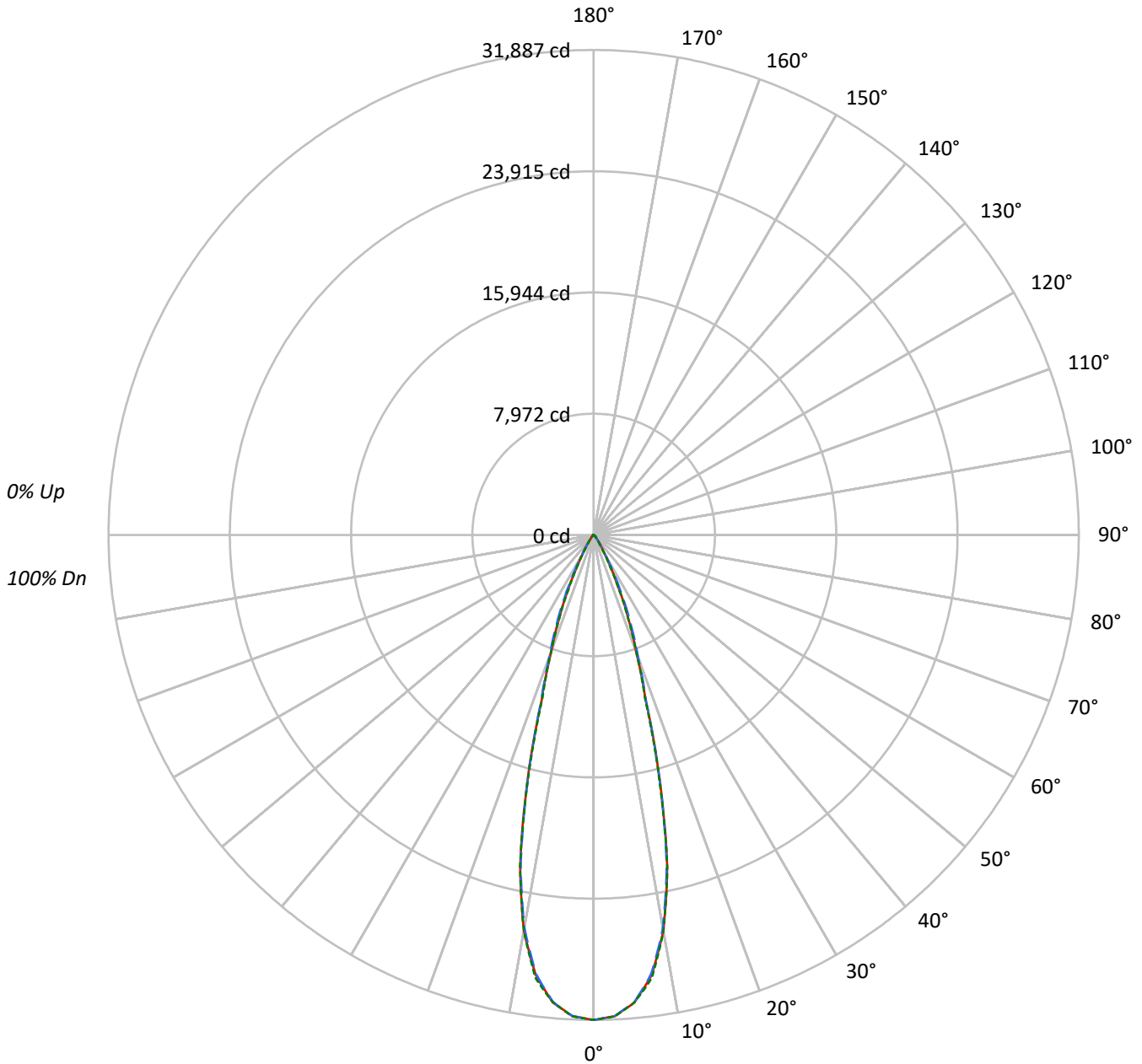
Input Watts (W): 87.7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



Downlight

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	115	113	111	109	112	110	109	107	106	105	104	103	102	101	99	99	98	96																			
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	97	95	94	92																			
3	107	102	98	95	105	101	97	94	98	95	93	96	93	91	94	92	90	89																			
4	103	98	93	90	102	96	93	90	94	91	89	93	90	88	91	89	87	85																			
5	100	94	89	86	98	93	89	86	91	88	85	90	86	84	88	86	83	82																			
6	97	90	85	82	95	89	85	82	88	84	81	87	83	81	85	83	80	79																			
7	94	87	82	79	92	86	82	79	85	81	78	84	81	78	83	80	78	77																			
8	91	84	79	76	90	83	79	76	82	78	76	81	78	75	80	77	75	74																			
9	88	81	76	73	87	80	76	73	80	76	73	79	75	73	78	75	73	72																			
10	85	78	74	71	85	78	74	71	77	73	71	76	73	71	76	73	70	69																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2440709	2440709	2440709
5°	2370645	2367879	2370768
10°	2053341	2038861	2052852
15°	1339699	1332504	1325808
20°	666170	691169	665282
25°	335570	378406	328695
30°	134354	146392	117057
35°	62317	59682	50029
40°	26909	29876	25340
45°	18976	23555	19149
50°	6526	17148	6895
55°	3763	7100	3963
60°	2633	3123	2633
65°	1703	1703	1703
70°	1052	694	1052
75°	0	473	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 23555 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2803.9	28.3
10°-20°	4515.8	45.5
20°-30°	1951.4	19.7
30°-40°	444.8	4.5
40°-50°	152.7	1.5
50°-60°	37.3	0.4
60°-70°	9.7	0.1
70°-80°	1.0	0.0
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	9271.1	93.5
0°-40°	9715.9	98.0
0°-60°	9905.9	99.9
0°-90°	9916.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9916.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	31887	31887	31887	31887	31887	
5°	30853	30824	30817	30882	30855	2806
15°	16906	16703	16815	16760	16731	4527
25°	3973	4124	4480	4019	3892	1902
35°	667	681	639	634	535	452
45°	175	218	218	218	177	124
55°	28	30	53	31	30	27
65°	9	9	9	9	9	9
75°	0	0	2	0	0	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	31886.6	31886.6	31886.6	31886.6	31886.6
2.5°	31675.3	31653.4	31665.9	31681.6	31687.8
5°	30853.4	30823.6	30817.4	30881.6	30855.0
7.5°	29195.5	29153.2	29089.0	29234.6	29370.8
10°	26418.3	26371.3	26232.0	26300.8	26412.0
12.5°	22318.1	22166.3	22163.2	22382.3	22352.6
15°	16906.1	16702.6	16815.3	16760.5	16730.8
17.5°	11368.9	11290.6	11440.9	11395.5	11199.8
20°	8178.3	8198.7	8485.2	8341.1	8167.4
22.5°	5967.8	6041.4	6381.1	6010.1	5873.9
25°	3973.3	4123.6	4480.5	4018.7	3891.9
27.5°	2443.8	2512.7	2874.3	2412.5	2343.6
30°	1520.1	1485.7	1656.3	1421.5	1324.4
32.5°	997.2	953.4	1008.2	904.9	826.6
35°	666.9	681.0	638.7	634.0	535.4
37.5°	416.4	479.1	422.7	450.9	344.4
40°	269.3	347.5	299.0	330.3	253.6
42.5°	220.7	267.7	245.8	261.4	225.4
45°	175.3	217.6	217.6	217.6	176.9
47.5°	97.1	145.6	186.3	148.7	103.3
50°	54.8	73.6	144.0	76.7	57.9
52.5°	37.6	42.3	98.6	43.8	39.1
55°	28.2	29.7	53.2	31.3	29.7
57.5°	21.9	23.5	28.2	23.5	21.9
60°	17.2	17.2	20.4	18.8	17.2
62.5°	12.5	12.5	14.1	12.5	12.5
65°	9.4	9.4	9.4	9.4	9.4
67.5°	4.7	6.3	6.3	6.3	6.3
70°	4.7	3.1	3.1	3.1	4.7
72.5°	3.1	1.6	1.6	1.6	1.6
75°	0.0	0.0	1.6	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



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Scaled Data Report





— 0°-180° - - 45°-225° - - - - 90°-270°

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